

Supplemental information:

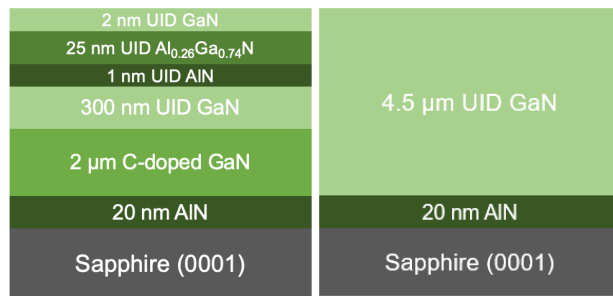


Figure 1: Epi structure of commercially sourced HEMT (left) and GaN (right) on sapphire.

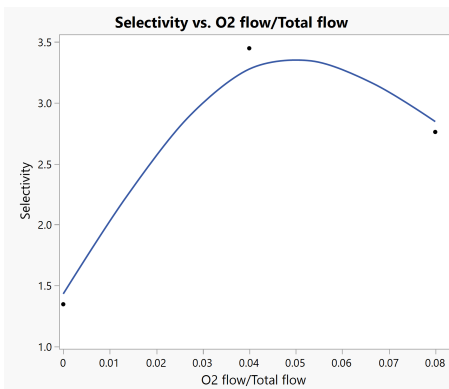


Figure 2: Measured selectivity for 3 different relative O₂ flow rates in initial testing. Other parameters kept constant.

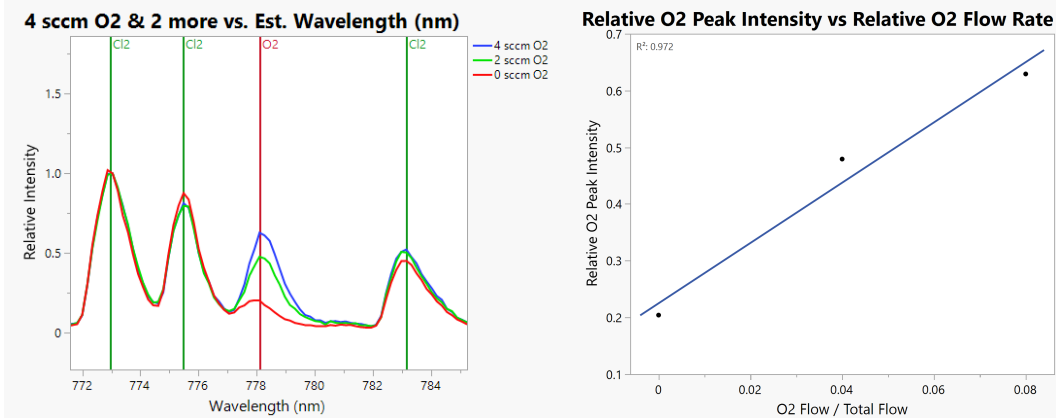


Figure 3: Region from OES spectra of initial tests highlighting differences in measured O₂ emission brightness (left) and linear fit of relative peak intensity against relative O₂ flow rates (right), all normalized to Cl₂ emission intensity because relative Cl₂ flow rates were kept constant between the shown tests.